Bed bugs are very challenging pests. The best way to rid them from your home is to hire a professional. Many over the counter products are contact-kill only (which can be very difficult with bed bugs) and offer little to no residual action. But with the average fee for bed bug treatment being around \$600, money is often an issue. What can be done if you simply don't have the funds available? Here are some DIY treatment options.

What is Not Effective for a DIYer?

Bug bombs or foggers for roaches or fleas are NOT effective against bed bugs. Bed bugs can easily hide in places that are unreachable to drifting insecticidal fogs.

Heat treatment can be effective, but is best done by a professional. Just turning up your furnace for a while will not eliminate many bed bugs. Thermal death temperature must reach at least 115°F for 60 minutes or more to kill bed bugs and their eggs. Some people have accidentally burned down their homes in desperate attempts to rid their property of bed bugs. Don't do this!



Remove Clutter

Cluttered spaces provide many places for bed bugs to hide. This makes treatment nearly impossible because clutter is difficult to penetrate.



Place piles of clothes that are on the floor in sealed bags for washing. Remove all items from under the bed, but do not put anything on top of the bed or move it to another room (this may spread bugs to un-infested spaces!) Don't move items from the closet into other rooms. Stack the things you wish to keep in front of the closet door for inspection. Items with no value, such as old newspapers, junk mail, magazines, and broken items should be bagged and thrown in the trash immediately.

Bed Bug Detection

It is very important to catch a bed bug infestation before the population becomes large and difficult to control. Devices such as a bed bug interceptor can help. It is basically a dish which is rough on the outside and coated with talc on the inside.



Bed bugs climb up the outside of the device and fall into the outer well where they can't escape. It will not eliminate an infestation, but it can catch enough bed bugs to reduce the population size. It also give you an idea where they are located; for example: in the bedroom but not in the living room.

Vacuuming

A high powered vacuum is very useful for removing bed bug debris, such as dead bugs, molted skins, hatched eggs and feces. No vacuum will remove all of the bed bug eggs (they are cemented in place), but the removal of bed bug debris makes it easier to see if anything is still alive in the harborage areas after treatment. Just make sure the infested vacuum bag is thrown away outside of the building.

Steam

Bed bugs are easy to kill with heat; the temperature must only get to 113-115°F. Putting infested clothing and bedding in a hot dryer is an excellent way of killing bed bugs and their eggs.



Heat can also be used to kill bed bugs and their eggs in furniture and carpeting by using a steamer. But steaming bed bugs is a slow process that takes patience. Steaming is an effective way to reduce an infestation, but steam alone will not eliminate an infestation.

Silica Gel

Silica gel is made up of silicon dioxide. It is synthetically produced, often from sand. The term "gel" is somewhat misleading since it is a powder or can be hard and formed into granules. It is also an efficient drying agent, which is why small bags of it are often packaged with electronics to prevent moisture accumulation.

Silica gel acts more as a sponge to absorb the bed bug's body moisture, having a tremendous absorbing capability. Studies showed that silica gel killed 97.5% of the available adult bed bugs in a 24 hour period, with 100% mortality within 48 hours (1).



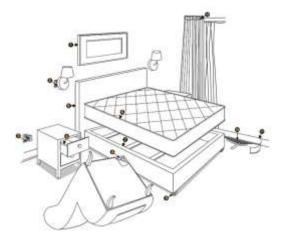
CimeXa is a brand name silica gel that is available for general purchase. It is non-toxic. As with any dusty material, airborne silica gel particles can be irritating to the eyes and respiratory tract. Due to the desiccating properties, the dust has a drying effect on skin which can be avoided by wearing gloves or washing after use.

Mattress and Box Spring Encasements

A mattress encasement is more than a bed cover. It seals your mattress so bed bugs can't infest it, and any bed bugs currently on your mattress can't bite through it or escape. A mattress encasement must be placed on the mattress as well as on the box spring. The zipper teeth must be tight enough to ensure that newly hatched bed bugs cannot escape. Make sure the encasement you purchase describes on the label that is has been tested for containing bed bugs.

Bed bugs hide well!

The drawing shows some areas to treat and to look for bed bugs.



See our other brochure, Bed Bugs, for additional information

(1) Silica Gel: a Better Bed Bug Desiccant; Pest Control Technology, August 26, 2014 (www.pctonline.com/pct0814-silica-gel-research-bed-bugs.aspx)

Dr. Michael Potter at the University of Kentucky is a premier bed bug entomologist.

www.ca.uky.edu/entomology/entfacts/ef636.asp
More good information at the following websites:
www.nyc.gov/html/doh/downloads/pdf/vector/bed

-bug-guide.pdf http://citybugs.tamu.edu/factsheets/bitingstinging/others/ent-3012

www2.epa.gov/bedbugs/top-ten-tips-prevent-orcontrol-bed-bugs

http://extension.entm.purdue.edu/bedbugs

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DIY Bed Bug Treatment





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